

FIGURE 1A

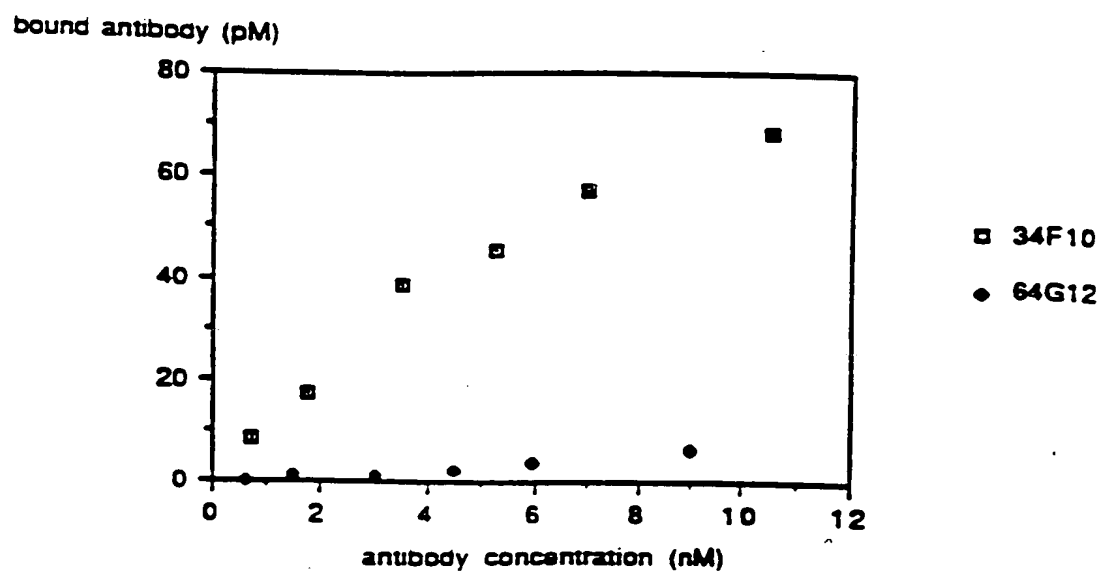


FIGURE 1B

SUBSTITUTE SHEET

CTGCAGGCGATCTGCGGCTGGCTCCCAC

ATG ATG GTC GTC CTC CTG GGC GCG ACG ACC CTA GTG CTC GTC GCC GTG GGC CCA
 Met Met Val Val Leu Leu Gly Ala Thr Thr Leu Val Leu Val Ala Val Gly Pro
 TGG GTG TTG TCC GCA GCC GCA GGT GGA AAA AAT CTA AAA TCT CCT CAA AAA GTA
 Trp Val Leu Ser Ala Ala Ala Gly Gly Lys Asn Leu Lys Ser Pro Gln Lys Val
 GAG GTC GAC ATC ATA GAT GAC AAC TTT ATC CTG AGG TGG AAC AGG AGC GAT GAG
 Glu Val Asp Ile Ile Asp Asp Asn Phe Ile Leu Arg Trp Asn Arg Ser Asp Glu
 TCT GTC GGG AAT GTG ACT TTT TCA TTC GAT TAT CAA AAA ACT GGG ATG GAT AAT
 Ser Val Gly Asn Val Thr Phe Ser Phe Asp Tyr Gln Lys Thr Gly Met Asp Asn
 TGG ATA AAA TTG TCT GGG TGT CAG AAT ATT ACT AGT ACC AAA TGC AAC TTT TCT
 Trp Ile Lys Leu Ser Gly Cys Gln Asn Ile Thr Ser Thr Lys Cys Asn Phe Ser
 TCA CTC AAG CTG AAT GTT TAT GAA GAA ATT AAA TTG CGT ATA AGA GCA GAA AAA
 Ser Leu Lys Leu Asn Val Tyr Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys
 GAA AAC ACT TCT TCA TGG TAT GAG GTT GAC TCA TTT ACA CCA TTT CGC AAA GCT
 Glu Asn Thr Ser Ser Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala
 CAG ATT GGT CCT CCA GAA GTA CAT TTA GAA GCT GAA GAT AAG GCA ATA GTG ATA
 Gln Ile Gly Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile Val Ile
 CAC ATC TCT CCT GGA ACA AAA GAT AGT GTT ATG TGG GCT TTG GAT GGT TTA AGC
 His Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu Asp Gly Leu Ser
 TTT ACA TAT AGC TTA CTT ATC TGG AAA AAC TCT TCA GGT GTA GAA GAA AGC ATT
 Phe Thr Tyr Ser Leu Leu Ile Trp Lys Asn Ser Ser Gly Val Glu Glu Arg Ile
 GAA AAT ATT TAT TCC AGA CAT AAA ATT TAT AAA CTC TCA CCA GAG ACT ACT TAT
 Glu Asn Ile Tyr Ser Arg His Lys Ile Tyr Lys Leu Ser Pro Glu Thr Thr Tyr
 TGT CTA AAA GTT AAA GCA GCA CTA CTT ACG TCA TGG AAA ATT GGT GTC TAT AGT
 Cys Leu Lys Val Lys Ala Ala Leu Leu Thr Ser Trp Lys Ile Gly Val Tyr Ser
 CCA GTA CAT TGT ATA AAG ACC ACA GTT GAA AAT GAA CTA CCT CCA CCA GAA AAT
 Pro Val His Cys Ile Lys Thr Thr Val Glu Asn Glu Leu Pro Pro Pro Glu Asn
 ATA GAA GTC AGT GTC CAA AAT CAG AAC TAT GTT CTT AAA TGG GAT TAT ACA TAT
 Ile Glu Val Ser Val Gln Asn Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr
 GCA AAC ATG ACC TTT CAA GTT CAG TGG CTC CAC GCC TTT TTA AAA AGG AAT CCT
 Ala Asn Met Thr Phe Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pro
 GGA AAC CAT TTG TAT AAA TGG AAA CAA ATA CCT GAC TGT GAA AAT GTC AAA ACT
 Gly Asn His Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val Lys Thr
 ACC CAG TGT GTC TTT CCT CAA AAC GTT TTC CAA AAA GGA ATT TAC CTT CTC CGC
 Thr Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile Tyr Leu Leu Arg
 GTA CAA GCA TCT GAT GGA AAT AAC ACA TCT TTT TGG TCT GAA GAG ATA AAG TTT
 Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp Ser Glu Glu Ile Lys Phe
 GAT ACT GAA ATA CAA GCT TTC CTA CTT CCT CCA GTC TTT AAC ATT AGA TCC CTT
 Asp Thr Glu Ile Gln Ala Phe Leu Leu Pr Pro Val Phe Asn Il Arg Ser Leu

FIGURE 2A

SUBSTITUTE SHEET

436x
500g

AGT GAT TCA TTC CAT ATC TAT ATC GGT GCT CCA AAA CAG TCT GGA AAC ACG CCT
 Ser Asp Ser Phe His Ile Tyr Ile Gly Ala Pr Lys Gln Ser Gly Asn Thr Pro

 GTG ATC CAG GAT TAT CCA CTG ATT TAT GAA ATT ATT TTT TGG GAA AAC ACT TCA
 Val Ile Gln Asp Tyr Pro Leu Ile Tyr Glu Ile Ile Phe Trp Glu Asn Thr Ser

 AAT GCT GAG AGA AAA ATT ATC GAG AAA AAA ACT GAT GTT ACA GTT CCT AAT TTG
 Asn Ala Glu Arg Lys Ile Ile Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu

 AAA CCA CTG ACT GTA TAT TGT GTG AAA GCC AGA GCA CAC ACC ATG GAT GAA AAG
 Lys Pro Leu Thr Val Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys

 CTG AAT AAA AGC AGT GTT TTT AGT GAC GCT GTA TGT GAG AAA ACA AAA CCA GGA
 Leu Asn Lys Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys Pro Gly

 AAT ACC TCT AAA TGA GGT ACC
 Asn Thr Ser Lys

FIGURE 2B

SUBSTITUTE SHEET

24x18.
 432 +
 436 +
 37 +
 439

CTGCAGGCACTCTGCTGCGCTCCAG

ATG ATG GTC GTC CTC CTG GGC GCG ACG ACC CTA GTG CTC GTC GCC GTG GGC CCA
 Met Met Val Val Leu Leu Gly Ala Thr Thr Leu Val Leu Val Ala Val Gly Pro
 TGG GTG TTG TCC GCA GCC GCA GGT GGA AAA AAT CTA AAA TCT CCT CAA AAA GTA
 Trp Val Leu Ser Ala Ala Ala Gly Gly Lys Asn Leu Lys Ser Pro Gln Lys Val
 GAG GTC GAC ATC ATA GAT GAC AAC TTT ATC CTG AGG TGG AAC AGG AGC GAT GAG
 Glu Val Asp Ile Ile Asp Asp Asn Phe Ile Leu Arg Trp Asn Arg Ser Asp Glu
 TCT GTC GGG AAT GTG ACT TTT TCA TTC GAT TAT CAA AAA ACT GGG ATG GAT AAT
 Ser Val Gly Asn Val Thr Phe Ser Phe Asp Tyr Gln Lys Thr Gly Met Asp Asn
 TGG ATA AAA TTG TCT GGG TGT CAG AAT ATT ACT AGT ACC AAA TGC AAC TTT TCT
 Trp Ile Lys Leu Ser Gly Cys Gln Asn Ile Thr Ser Thr Lys Cys Asn Phe Ser
 TCA CTC AAG CTG AAT GTT TAT GAA GAA ATT AAA TTG CGT ATA AGA GCA GAA AAA
 Ser Leu Lys Leu Asn Val Tyr Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys
 GAA AAC ACT TCT TCA TGG TAT GAG GTT GAC TCA TTT ACA CCA TTT CGC AAA GCT
 Glu Asn Thr Ser Ser Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala
 CAG ATT GGT CCT CCA GAA GTA CAT TTA GAA GCT GAA GAT AAG GCA ATA GTG ATA
 Gln Ile Gly Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile Val Il
 CAC ATC TCT CCT GGA ACA AAA GAT AGT GTT ATG TGG GCT TTG GAT GGT TTA AGC
 His Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu Asp Gly Leu Ser
 TTT ACA TAT AGC TTA CTT ATC TGG AAA AAC TCT TCA GGT GTA GAA GAA AGG ATT
 Phe Thr Tyr Ser Leu Leu Ile Trp Lys Asn Ser Ser Gly Val Glu Glu Arg Ile
 GAA AAT ATT TAT TCC AGA CAT AAA ATT TAT AAA CTC TCA CCA GAG ACT ACT TAT
 Glu Asn Ile Tyr Ser Arg His Lys Ile Tyr Lys Leu Ser Pro Glu Thr Thr Tyr
 TGT CTA AAA GTT AAA GCA GCA CTA CTT ACG TCA TGG AAA ATT GGT GTC TAT AGT
 Cys Leu Lys Val Lys Ala Ala Leu Leu Thr Ser Trp Lys Ile Gly Val Tyr Ser
 CCA GTA CAT TGT ATA AAG ACC ACA GTT GAA AAT GAA CTA CCT CCA CCA GAA AAT
 Pro Val His Cys Ile Lys Thr Thr Val Glu Asn Glu Leu Pro Pro Pro Glu Asn
 ATA GAA GTC AGT GTC CAA AAT CAG AAC TAT GTT CTT AAA TGG GAT TAT ACA TAT
 Ile Glu Val Ser Val Gln Asn Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr
 GCA AAC ATG ACC TTT CAA GTT CAG TGG CTC CAC GCC TTT TTA AAA AGG AAT CCT
 Ala Asn Met Thr Phe Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pr
 GGA AAC CAT TTG TAT AAA TGG AAA CAA ATA CCT GAC TGT GAA AAT GTC AAA ACT
 Gly Asn His Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val Lys Thr
 ACC CAG TGT GTC TTT CCT CAA AAC GTT TTC CAA AAA GGA ATT TAC CTT CTC CGC
 Thr Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile Tyr Leu Leu Arg
 GTA CAA GCA TCT GAT GGA AAT AAC ACA TCT TTT TGG TCT GAA GAG ATA AAG TTT
 Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp Ser Glu Glu Ile Lys Phe
 GAT ACT GAA ATA CAA GCT TTC CTA CTT CCT CCA GTC TTT AAC ATT AGA TCC CTT
 Asp Thr Glu Ile Gln Ala Phe Leu Leu Pr Pr Val Phe Asn Ile Arg Ser Leu

FIGURE 3A

SUBSTITUTE SHEET

52904260

AGT GAT TCA TTC CAT ATC TAT ATC GGT GCT CCA AAA CAC TCT TGA APC PCG CCT
 Ser Asp Ser Phe His Ile Tyr Il Gly Ala Pro Lys Gln Ser Gly Asn Thr Pro
 GTG ATC CAG GAT TAT CCA CTG ATT TAT GAA ATT ATT TTT TGG GAA AAC ACT TCA
 Val Ile Gln Asp Tyr Pro Leu Ile Tyr Glu Ile Ile Phe Trp Glu Asn Thr Ser
 AAT GCT GAG AGA AAA ATT ATC GAG AAA AAA ACT GAT GTT ACA GTT CCT AAT TTG
 Asn Ala Glu Arg Lys Ile Ile Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu
 AAA CCA CTG ACT GTA TAT TGT GTG AAA GCC AGA GCA CAC ACC ATG GAT GAA AAG
 Lys Pro Leu Thr Val Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys
 CTG AAT AAA AGC AGT GTT TTT AGT GAC GCT GTA TGT GAG AAA ACA AAA CCA GGA
 Leu Asn Lys Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys Pro Gly
 AAT ACC TCT AAA ATT TGG CTT ATA GTT GGA ATT TGT ATT GCA TTA TTT GCT CTC
 Asn Thr Ser Lys Ile Trp Leu Ile Val Gly Ile Cys Ile Ala Leu Phe Ala Leu
 CCG TTT GTC ATT TAT GCT GCG AAA GTC TTC TTG AGA TGC ATC AAT TAT GTC TTC
 Pro Phe Val Ile Tyr Ala Ala Lys Val Phe Leu Arg Cys Ile Asn Tyr Val Phe
 TTT CCA TCA CTT AAA CCT TCT TCC AGT ATA GAT GAG TAT TTC TCT GAA CAG CCA
 Phe Pro Ser Leu Lys Pro Ser Ser Ser Ile Asp Glu Tyr Phe Ser Glu Gln Pro
 TTG AAG AAT CTT CTG CTT TCA ACT TCT GAG GAA CAA ATC GAA AAA TGT TTC ATA
 Leu Lys Asn Leu Leu Leu Ser Thr Ser Glu Glu Gln Ile Glu Lys Cys Phe Ile
 ATT GAA AAT ATA AGC ACA ATT GCT ACA GTA GAA GAA ACT AAT CAA ACT GAT GAA
 Ile Glu Asn Ile Ser Thr Ile Ala Thr Val Glu Glu Thr Asn Gln Thr Asp Glu
 GAT CAT AAA AAA TAC AGT TCC CAA ACT AGC CAA GAT TCA GGA AAT TAT TCT AAT
 Asp His Lys Lys Tyr Ser Ser Gln Thr Ser Gln Asp Ser Gly Asn Tyr Ser Asn
 GAA GAT GAA AGC GAA AGT AAA ACA AGT GAA GAA CTA CAG CAG GAC TTT GTA TGA
 Glu Asp Glu Ser Glu Ser Lys Thr Ser Glu Glu Leu Gln Gln Asp Phe Val
 CCAGAAATGAACTGTGTCAAGTATAAGGTTTTTCAGCAGGAGTTACACTGGTACC

FIGURE 3B

SUBSTITUTE SHEET